

[illegible]

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FIGURE 1 CONTINUED

241
 E. coli MS ALQGV...KLLLTTFEGVTPN...LDTITALPVQGLHVDLVHGKDDVAELHKRLPSD 300
 yeast MS YFGEQSNLPKITLATYFGTVPN...LDAIKGLPVAALHVDVFRAPQFDEVVAIIGNK
 tobacco MS ELESSLGLNVLTYFADVPBAEFKTLTALKG..VTAFGFDLVRGAQTLDLIKGGFPSPG
 C. roseus MS ELESTLSGLNVIVETYFADIPAETYKILTALKG..VTGFGFDLVRGAQTLDLIKGGFPSPG
 corn MS/partial
 soy MS/partial

301
 E. coli MS WLLSAGLINGRNVRADLTEKYAQIK...DIVGKRDLVWASSCSLLHSPIDLSVETRLDA 360
 yeast MS QTLVGIVDGRNIWKNDFFKSSAIVNKAIEKLGADRVVATSSLLHTPVDLNNETKLDA
 tobacco MS KYLFAGVVDGRNIWANDLAASNLQSLQLEGIVGDKLVVSTCSLLHTAVDLVNETKLDD
 C. roseus MS KYLFAGVVDGRNIWANDLAASLSTLQSLQLEGIVGDKLVVSTCSLLHTAVDLVNEPKLDD
 corn MS/partial
 soy MS/partial

361
 E. coli MS EVKSWFAFALQKCHELALLRDAALNSGDTAA.LAEWSAPIQARRHSTRVHNPAVEKRLAAI 420
 yeast MS EIKGFFSFATQKLDEVVITKNVSGQDVAAALEANAKSVESRGKSKFIHDAAVKRRVASI
 tobacco MS EIKSWLAFAAQKVVEVNALAKALAXHKDEAFFSANATAQASRKSSPRVTNEAVQKAAAAL
 C. roseus MS EIKSWLAFAAQKVVEVNALAKALAGEKDEAFFSENAQAQASRKSSPRVTNQAVQKAAAAL
 corn MS/partial
 soy MS/partial

421
 E. coli MS TAQDSQRANVYEVRAEAQRARFKLPAPWPTTTIGSFPPQTTEIRTLRDLDFKKGNDLANNYRT 480
 yeast MS DEKMSTRAAPFEQRLPEQQKVFNLPFPPTTTIGSFPPQTKDIRNRNKFNGKGTISAEYEYK
 tobacco MS KGSDHRRATNVSSRLDAQQKKLNLPVLPPTTTIGSFPPQTVELRRVRREYKAKKISEEYVYK
 C. roseus MS RGSDDHRRATTVSARLDAQQKKLNLPVLPPTTTIGSFPPQTVLELRRVRREYKAKKISEDDYVK
 corn MS/partial
 soy MS/partial

FIGURE 1 CONTINUED

481
 E. coli MS GIAEHKQAIVEQERLGLDVLVHGAEARNDMVEYFGEHLDFVFTQNGWVQSYGSRVCVKP 540
 yeast MS FINSEIEKVI RFQEEIGLDVLVHGEPERNDMVQYFGEQINGYAFTVNGWVQSYGSRVVRP
 tobacco MS AIKAEIKKVVLDQEELDIDVLVHGEPERNDMVEYFGEQLSGFAFTANGWVQSYGSRVCVKP
 C. roseus MS AIKEEISKVVKLQEELDIDVLVHGEPERNDMVEYFGEQLSGFAFTANGWVQSYGSRVCVKP
 corn MS/partial AIMEXISKXVRIQEELDIDVVVHGEPERXDXXXYFGEKLSAFASATATGWXXSYGSR. . . .
 soy MS/partial SIKEEIRKVVELQEELDIDVLVHGEPERNDMVEYFGEQLSGFAFTVNGWVQSYGSRVCVKP
 541
 E. coli MS PIVIGDISRPAPITVEWAKYAQSLTDKPKVGMLTGPVTILCWSFPREDVSRETIAKQIAL 600
 yeast MS PIIVGDLSPKAMSVKESVYAQSITSPVKGMLTGPITCLRWSFPRDDVDQKTQAMQLAL
 tobacco MS PIIYGDVSRPNPMTVFSKTAQSMTKRPMKGMLTGPVTILNWSFVRNDQPRXETCYQIA
 C. roseus MS PIIYGDVSRPNPMTVFSQTAQSMTKRPMKGMLTGPVTILNWSFVRNDQPRFETCYQIAL
 corn MS/partial
 soy MS/partial PIIYGDVSRPKPMTVFWSSLAQSFTKRPKGMLTGPVTILNWSFVRNDQPRSETTYQIAL
 601
 E. coli MS ACVMKWPWKPLELASSRLTNRRRLRQGLPLRRS.DWDAYLQGWVEAFRINA AVAKDDTQI 660
 yeast MS ALRDEVNDLEAAGIKVIOVDEPALREGPLRGTERSAYYTAAEA FRVATSGVANKTQI
 tobacco MS XIKDEVEDLEKAXITVIOIDEAALREGPLRKA.EHAFYLNWAVHSFRITNVGIQDTTQI
 C. roseus MS AIKDEVEDLEKAGINVIQIDEAALREGPLRKA.EHAFYLDWAVHSFRITNLPLQDTTQI
 corn MS/partial
 soy MS/partial AIKDEVEDLEKAGITVIOIDEAALREGPLXKS.EQAHYLDWAVHAFRITNVGVQDTTQI
 661
 E. coli MS HTHMCYCFNDIMDSIAALDRDVITIE.TSRSDMELLESFEE.FDYPNEIGPGVYDIHSP 720
 yeast MS HSHFCYSDLP..NHIKALDADVSI EFSKKDDANYIAEFKN...YPNHIGLGLFDIHSP
 tobacco MS HTHMCYSNFNDIIHSIIDMDADVITIE.NSRSEKLLSVFREGVKYAGIGPGVYDIHSP
 C. roseus MS HTHMCYSNFNDIIHSIIDMDADVMTIE.NSRSEKLLSVFREGVKYAGIGPGVYDIHSP
 corn MS/partial
 soy MS/partial HTHMCYSNFNDIIHSIIDMDADVITIE.NSRSEKLLSVFREGVKYAGIXPGVYDIHSP

[illegible]

FIGURE 1 CONTINUED

	721	FIGURE 1 CONTINUED	780
E. coli MS	NVPSVEWIEALLKKA	KRIPAERLWVNPDCGLKTRGWPETRAALANMVQAAQNLRG...	
yeast MS	RIPSKDEFIAKISTIL	KSYPAEKFWVNPDCGLKTRGWEETRLSLTHMVEAAKYFREQY...	
tobacco MS	RIPSTEEIADRVNKM	LAVLDTNILWVNPDCGLKTRKYAEVVKPALENMVSAAKAIRTQLAS	
C. roseus MS	RIPSTEEIADRVNKM	LAVLDTNILWVNPDCGLKTRKYAEVVKPALENMVSAAKLIRTQLAS	
corn MS/partial	
soy MS/partial	RIPPTEEIADRVNKM	LAVLEKNILWVNPDCGLKTRKYTEVVKPALTNMVAAAKLIRNELAK	

E. coli MS
yeast MS
tobacco MS
C. roseus MS
corn MS/partial

[illegible]

SEQ ID NO:02	SEQ ID NO:02	SEQ ID NO:02
SEQ ID NO:04	SEQ ID NO:04	SEQ ID NO:04
SEQ ID NO:06	SEQ ID NO:06	SEQ ID NO:06
SEQ ID NO:08	SEQ ID NO:08	SEQ ID NO:08
SEQ ID NO:10	SEQ ID NO:10	SEQ ID NO:10
SEQ ID NO:11	SEQ ID NO:11	SEQ ID NO:11
SEQ ID NO:02	SEQ ID NO:02	SEQ ID NO:02
SEQ ID NO:04	SEQ ID NO:04	SEQ ID NO:04
SEQ ID NO:06	SEQ ID NO:06	SEQ ID NO:06
SEQ ID NO:08	SEQ ID NO:08	SEQ ID NO:08
SEQ ID NO:10	SEQ ID NO:10	SEQ ID NO:10
SEQ ID NO:11	SEQ ID NO:11	SEQ ID NO:11
SEQ ID NO:02	SEQ ID NO:02	SEQ ID NO:02
SEQ ID NO:04	SEQ ID NO:04	SEQ ID NO:04
SEQ ID NO:06	SEQ ID NO:06	SEQ ID NO:06
SEQ ID NO:08	SEQ ID NO:08	SEQ ID NO:08
SEQ ID NO:10	SEQ ID NO:10	SEQ ID NO:10
SEQ ID NO:11	SEQ ID NO:11	SEQ ID NO:11

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19

121

SEQ ID NO:02
SEQ ID NO:04
SEQ ID NO:06
SEQ ID NO:08
SEQ ID NO:10
SEQ ID NO:11

[illegible]

SEQ	ID	NO:02
SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:08
SEQ	ID	NO:10
SEQ	ID	NO:11

***** * * * * *
 VNALAKALAGQKDEVYFAANAAQAASRRSSPRVTNEEVQKAAAALRGSDHRRSTTVSARL
 VNALAKALSGNKDVAFFSANAAQAASRKSSPRVTNEAVQKAAAALKGSDHRRATNV SARL
 VNALAKALAGHKDEAFFSANATAQAASRKSSPRVTNEAVQKAAAALKGSDHRRATNVSSRL

 -----SSPRVNNE-VQKAAAALKGSDHRRATPVSARL
 VNALAKALAGEKDEAFFSENAAQAASRKSSPRVTNQAVQKAAAALRGSDHRRATTVSARL
 361

SEQ	ID	NO:02
SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:08
SEQ	ID	NO:10
SEQ	ID	NO:11

 DAQKKLNLPLPTTTIGSFPQTVELRRVRREYKAKKITEDEYISAIKEEISKVVKIQEE
 DAQKKLNLPLPTTTIGSFPQTVELRRVRREFKANKISEEYVKSIKEIRKVVVLQEE
 DAQKKLNLPLPTTTIGSFPQTVELRRVRREYKAKKISEEYVKAIKAEIKKVVDLQEE

 DAQKKLNLPLPTTTIGSFPQTMDLRRVRREYKAKEDLXGVCQCQYQGRNXQRLSRFKEE
 DAQKKLNLPLPTTTIGSFPQTLELRRVRREYKAKKISEDDYVKAIKEEISKVVKLQEE
 421

SEQ	ID	NO:02
SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:08
SEQ	ID	NO:10
SEQ	ID	NO:11

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*****  **** ***** ***** ***** ***** ***** ***** ***** *****
LDIDLVLHGEPERNDMVEYFGEQLSGFAFTANGWVQSYGSRVCVKPPIIYGDVSRPNPMTV *****
LDIDLVLHGEPERNDMVEYFGEQLSGFAFTANGWVQSYGSRVCVKPPIIYGDVSRPNPMTV
LDIDLVLHGEPERNDMVEYFGEQLSGFAFTANGWVQSYGSRVCVKPPIIYGDVSRPKPMTV
-----
LDIDLVLXQ-----
LDIDLVLHGEPERNDMVEYFGEQLSGFAFTANGWVQSYGSRVCVKPPIIYGDVSRPNPMTV
481

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540

